BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

Name of the Work :- Resetting of Chainlink Fencing implimentaion of rainwater harvesting and implimentaion to park at Sahakarnagar park in ward No.8

Eatimated Cost : 30.00 Lakhs

Job Code : 008-17-000057

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Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 (P.No.139, I.No.18.20 of PW,P&IWTD SR 2018-19)								
	9th Main Road park								
	Fencing	Cum							
	Footpath		2.00	40.00	2.60	0.10	20.80		
			1.00	40.00	2.60	0.10	10.40		
							31.20	522.40	**16298.88**
	A.Basic rate	**390.00**							
	B.Area Weightage 6%	**23.40**							
	B.Loading and unloading with 20km lead (as per SR-2018-19)= 57+2.0x1.3x20 = 109	**109.00**							
	Total	**522.40**							
2	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar (P.No.140, I.No.18.27 of PW,P&IWTD SR 2018-19)								
	9th Main Road park								
	Fencing	Cum							
	Existing SSM		1.00	40.00	0.45	0.23	4.14		
			1.00	40.00	0.45	0.23	4.14		
			1.00	40.00	0.45	0.23	4.14		
	Deductions								
	Main Gate		-1.00	9.00	0.45	0.23	-0.93		
							11.49	372.06	**4274.97**
	A.Basic rate	**351.00**							
	C (Area Weightage 6%)	**21.06**							
	Total	**372.06**							
3	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	Fencing								
	9th Main Road park								
	New SSM wall	Cum	1	40.00	1.10	1.00	44.00		
							44.00	252.49	**11109.65**
	A.Basic rate	**130.00**							
	B.Loading and unloading with 20km lead= 57+2.0x1.28x20 = 108.2	**108.20**							
	C (Area Weightage 6%)	**14.29**							
	Total	**252.49**							
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.2 of PW,P&IWTD S.R 2018-19)								
	Bed Concrete	Cum							

	9th Main Road park								
	Fencing								
	New SSM wall		*1*	*40.00*	*1.10*	*0.15*	*6.60*		
							6.60	*5505.64*	***36337.22***
	A.Basic rate	***5194.00***							
	B.Area Weightage 6%	***311.64***							
	Total	***5505.64***							
5	*KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2(Page No : 16, item No : 4.28)*								
	9th Main Road park								
	Chainlink Fencing	*Cum*							
	Post for old Fencing	*2*	*67*	*0.45*		*0.30*	*18.09*		
	Post for New Fencing	*2*	*22*	*0.45*		*0.30*	*5.94*		
							24.03	*273.48*	***6571.72***
	A.Basic rate	***258.00***							
	B.Area Weightage 6%	***15.48***							
	Total	***273.48***							
6	*KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(P.No.25, I.No.5.6 of PW, P&IWTD S.R 2018-19)*								
	9th Main Road park	*Cum*							
	Fencing								
	Fondation		*1*	*40.00*	*0.60*	*0.70*	*16.80*		
	New SSM wall		*1*	*40.00*	*0.45*	*0.90*	*16.20*		
	Existing SSM		*1.00*	*40.00*	*0.45*	*0.90*	*16.20*		
			1.00	*40.00*	*0.45*	*0.90*	*16.20*		
			1.00	*40.00*	*0.45*	*0.90*	*16.20*		
	Deduction								
	Chainlink Fencing Post concrete		*-89.00*	*0.45*	*0.45*	*0.23*	*-4.15*		
							77.45	*4871.76*	***377341.32***
	A.Basic rate	***4596.00***							
	B.Area Weightage 6%	***275.76***							
	Total	***4871.76***							
7	*KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.115, I.No.15.1 of PW, P&IWTD S.R 2018-19)*								
	9th Main Road park	*Sqm*							
	Fencing								
	New SSM wall		*2*	*40.00*		*0.90*	*72.00*		
	Existing SSM		*2*	*40.00*		*0.90*	*72.00*		
			2	*40.00*		*0.90*	*72.00*		
			2	*40.00*		*0.90*	*72.00*		
							288.00	*149.46*	***43044.48***
	A.Basic rate	***141.00***							
	B.Area Weightage 6%	***8.46***							
	Total	***149.46***							
8	*KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW,P&IWTD S.R 2018-19)*								
	9th Main Road park								
	Coping	*Cum*							

	Fe ng		1	40.00	0.20	0.10	0.80		
			1	40.00	0.20	0.10	0.80		
			1	40.00	0.45	0.10	1.80		
			1	40.00	0.45	0.10	1.80		
	Deductions								
	Chainlink Fencing Post concrete		-89	0.45	0.45	0.10	-1.80		
							3.40	5747.32	**19527.96**
	A.Basic rate	**5422.00**							
	B.Area Weightage 6%	**325.32**							
	Total	**5747.32**							
9	*KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.43 cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation and plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.(P.No.13, I.No. 4.5 of PWD SR 2018-19)*								
	9th Main Road park								
	Coping	Cum							
	Chainlink Fencing Post concrete		89	0.45	0.45	0.23	4.15		
							4.15	5647.68	**23410.62**
	A.Basic rate	**5328.00**							
	B.Area Weightage 6%	**319.68**							
	Total	**5647.68**							
10	*Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should bethoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification(P.No.45, I.No7.37 of PW,P&IWTD S.R 2018-19))*								
	9th Main Road park								
	for gate	sqm							
			1	9.00	3.00		27.00		
							27.00	3192.72	**86203.44**
	A.Basic rate	**3012.00**							
	B.Area Weightage 6%	**180.72**							
	Total	**3192.72**							
11	*KSRRB M800-7. Painting:-Providing and applying two coats of ready- mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications.* *MORTH Specification No. 803 Painting on Steel Surface(P.No.181, I.No24.8.1 of PW,P&IWTD S.R 2018-19))*								
	9th Main Road park								
	For Posts of Grill	Sqm							
	For gate		1	5.0	3.0		15.00		
							15.00	344.50	**5167.50**
	A.Basic rate	**72.00**							
	B.Area Weightage 6%	**4.32**							
	Total	**76.32**							
12	*KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications, (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305 (P.No.147, I.No.19.60 of PW,P&IWTD S.R 2018-19)*								

	Filling	Cum							
	9th Main Road park								
	Park surface area		1.00	40.00	32.00	0.10	128.00		
							128.00	344.50	44096.00
	A.Basic rate	325.00							
	B.Area Weightage 6%	19.50							
	Total	344.50							
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No.266 I.No.37.2 of PW,P&IWTD SR of 2018-19)								
	Chain Link Fancing	m							
	9th Main Road park								
	for remaining portion		22	3.00	--	--	66.00		
			20	1.00	--	--	20.00		
			20	1.00	--	--	20.00		
			20	1.00	--	--	20.00		
							126.00	910.54	114728.04
	A.Basic rate	859.00							
	B.Area Weightage 6%	51.54							
	Total	910.54							
14	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No. 266 of I.No.37.3 in PW,P&IWTD S.R 2018-19)								
	9th Main Road park								
	Chain Link Fancing	Sqm							
	for remaining portion		1	40.00	--	2.00	80.00		
			1	40.00	--	1.00	40.00		
			1	40.00	--	1.00	40.00		
			1	40.00	--	1.00	40.00		
							200.00	757.90	151580.00
	A.Basic rate	715.00							
	B.Area Weightage 6%	42.90							
	Total	757.90							
15	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&IWTD SR of 2018-19)								
	9th Main Road park								
	Chain Link Fancing	m							
	for remaining portion		3	40.00	--	--	120.00		
			1	40.00	--	--	40.00		
			1	40.00	--	--	40.00		
			1	40.00	--	--	40.00		
							240.00	432.48	103795.20
	A.Basic rate	408.00							
	B.Area Weightage 6%	24.48							
	Total	432.48							
16	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No155 of I.No.20.20 in PW,P&IWTD SR 2018-19)								
	9th Main Road park								
	For Cobble Stone Footpath	cum							

			1	35.00	2.60	0.10	9.10		
			1	35.00	2.60	0.10	9.10		
			1	40.00	2.60	0.10	10.40		
			1	40.00	2.60	0.10	10.40		
	A.Basic rate	**209.00**					39.00	221.54	**8640.06**
	B.Area Weightage 6%	**12.54**							
	Total	**221.54**							
17	*KSRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)*								
	9th Main Road park								
	For Cobble Stone Footpath	Sqm							
			1	35	2.60		91.00		
			1	35	2.60		91.00		
			1	40	2.60		104.00		
			1	40	2.60		104.00		
	A.Basic rate	**1053.00**					390.00	1116.18	**435310.20**
	B.Area Weightage 6%	**63.18**							
	Total	**1116.18**							
18	*Providing and fixing precast solid concrete kerb stones made out of CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P. No. 27 I. No.5.29.2 in PW,P&IWTD SR 2018-19)*								
	9th Main Road park								
	For Cobble Stone Footpath	*No*							
			2	35			156.00		
			2	35			156.00		
			2	40			178.00		
			2	40			178.00		
							668.00	467.46	**312263.28**
	A.Basic rate	**441.00**							
	B.Area Weightage 6%	**26.46**							
	Total	**467.46**							
19	*KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180, I.No. 24.1 of PW,P&IWTD SR 2018-19)*								
	9th Main Road park								
	For Cobble Stone Footpath	*Sqm*							
	Kerbs painting		2	35		0.35	24.50		
			2	35		0.35	24.50		
			2	40		0.35	28.00		
			2	40		0.35	28.00		
							105.00	84.80	**8904.00**
	Basic rate	**80.00**							
	Area Weightage 6%	**4.80**							
	Final Rate	**84.80**							
20	*KSRRB 2.6:Providing and filling Stone Dust in trenches to required depth including watering ramming with all leads and lift. complete as per specification and as directed by Engineer-in-charge (P.No.7, I.No. 2.13 of PW,P&IWTD SR 2018-19)*								
	9th Main Road park								
	Sand filling for Play area	*Cum*							
			1	15.00	15.00	0.15	33.75		
							33.75	1432.12	**48334.05**
	Basic Rate (a)	**2060.00**							
	Deduct sand rate Rs.1450(b)	**1680.95**							
	Deduct 20% of (b) Over Head charges & Contractor Profit=(c)	**336.19**							
	Arrived Rate (d)	**42.86**							
	Add Stone Dust Rate Rs. 200 (e)	**1000.00**							

	Add 20% of (e) Over Head charges & Contractor Profit=(f)	200.00							
	Total	1242.86							
	Load and Lift Charges (2*1.2*820+57)	108.20							
	Sub Total	1351.06							
	AW 6%	81.06							
	Grand Total	1432.12							
21	Providing and making precast seating arrangement including excavation laying pcc M15, providing laying M20 concrete for pedestal and seating slab, fixing of seating slab including all necessary bolt and nuts etc, complete and as per the directions of Engineer in-Charge. (Data Rate)								
	9th Main Road park								
	Benches	Each	1	9.00	--	--	9.00	11785.00	106065.00
	Data Rate	11785.00							
								Total Construction Cost	1963003.59
								4% KRDIL Charges	78520.14
22								12% GST to Construction Cost	235560.43
								Electrification work in Park	720000.00
								Sub Total	2997084.17
								Miscellaneous and rounding off	2915.83
1								Total	3000000.00

Certificate.

1 *The rates adopted based on the, BWSSB SR 2017-18, PRED SR 2012-13, RWS SR 2012-13, KPWD Electrical SR 14-15, PWD SR, Bangalore circle for year 2018-19.*

2 *The provisions made in the estimate are necessary and essential.*

3 *The workspot was inspected and work is found to be necessary.*

4 *The area comes within the Bruhat Bangalore Mahanagara Palike limits.*

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

Technical Sanction
RS 30 w.e.f. 08.01.2019
P 2178
204/18-19

Administrative Approval
Accorded For
RS 30 w.e.f. 08.01.2019
P 2178
118/18-19

TA | CE (YNK)

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Resetting of Chainlink Fencing implimentaion of rainwater harvesting and implimentaion to park at Sahakarnagar park in ward No.8